

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P939303

Luminaire Tested: **GALN-SB1D-830-U-T1**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939303  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1D-830-U-T1  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 3000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9049 lumens  
Efficiency: N/A  
Efficacy: 113.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G3

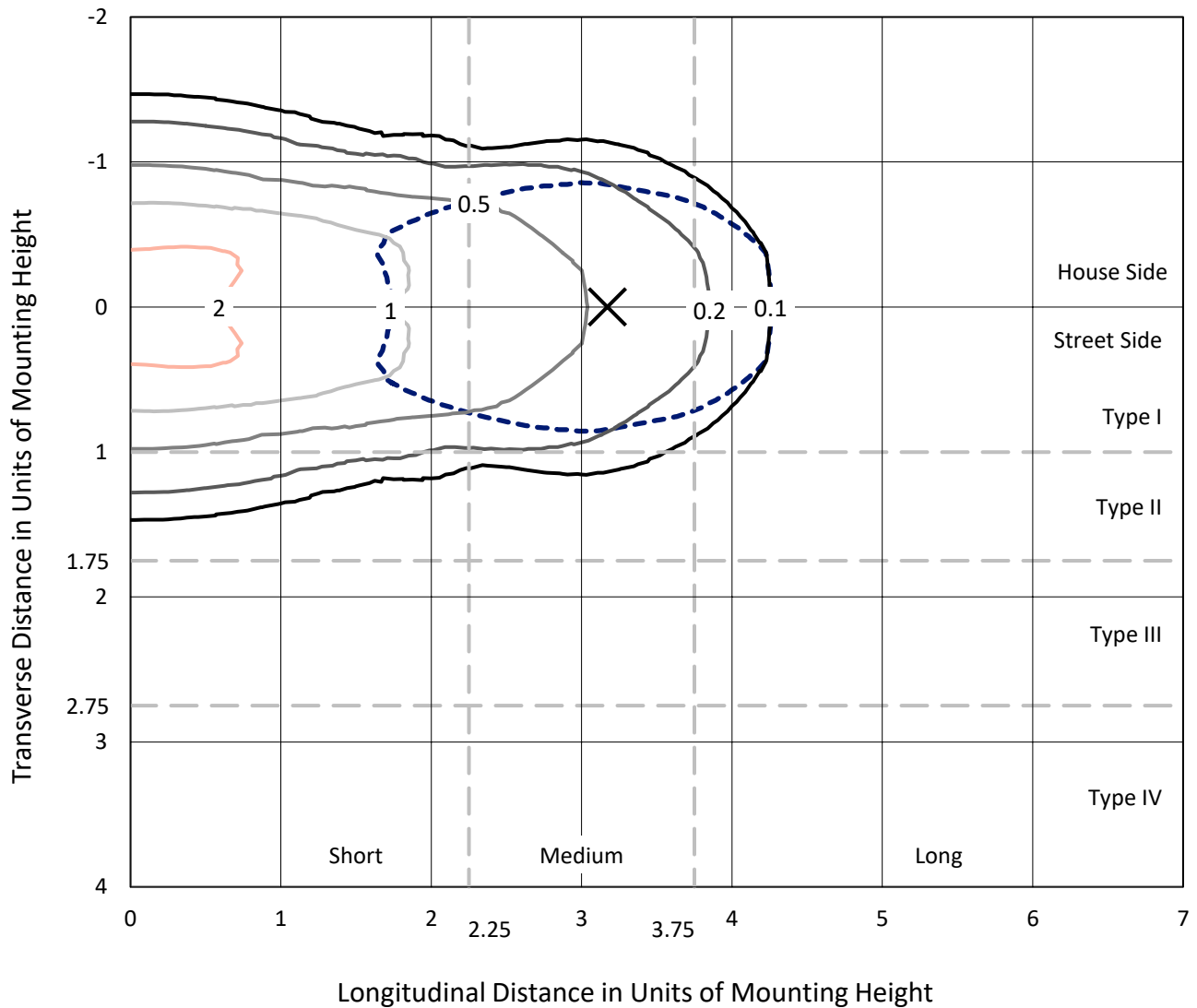
Input Watts (W): 79.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

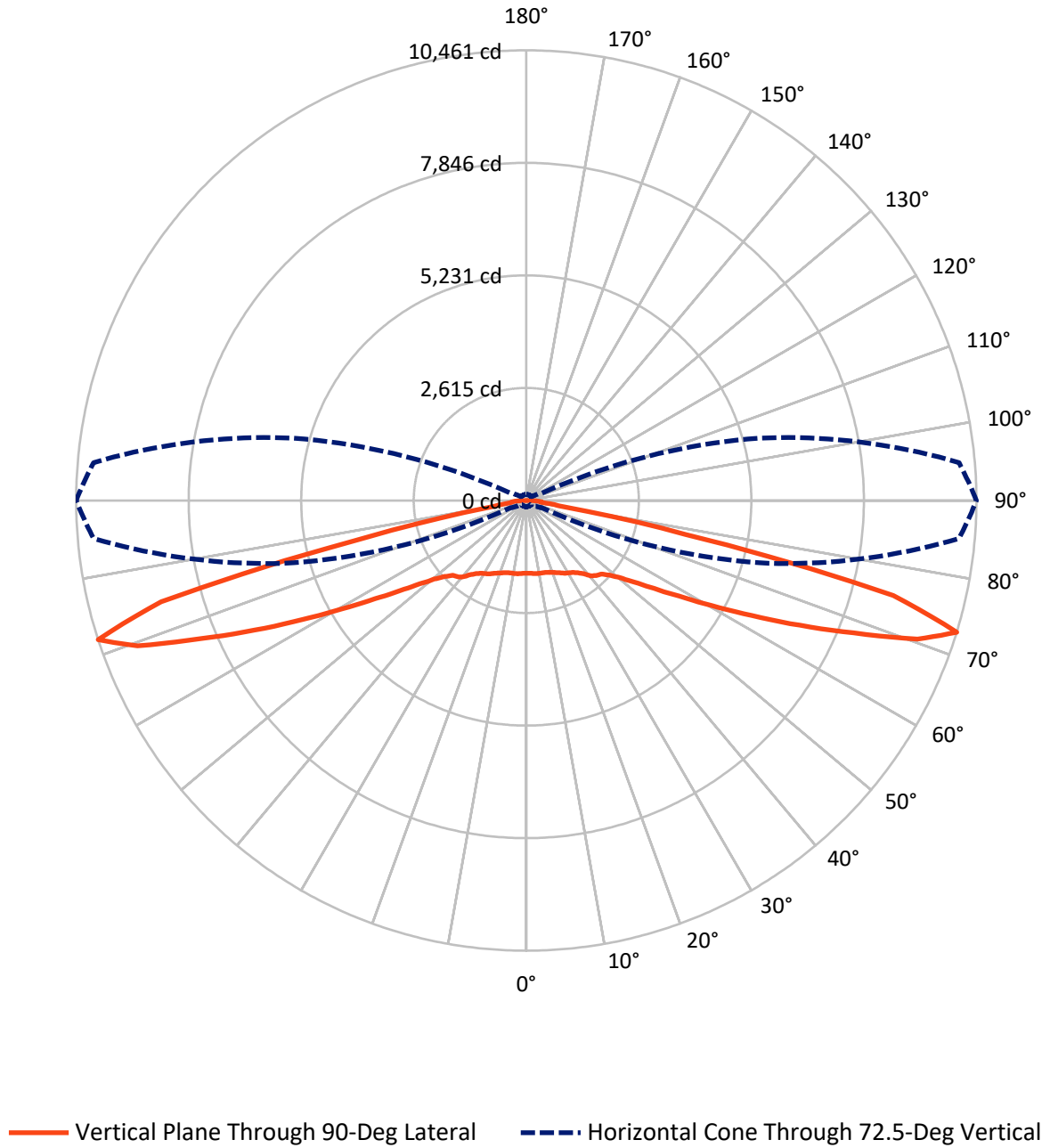
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 4524.5   | 0.0    | 4524.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 4524.5   | 0.0    | 4524.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 9049.0   | 0.0    | 9049.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 164.0  | 1.8       |
| 10°-20°   | 501.3  | 5.5       |
| 20°-30°   | 835.9  | 9.2       |
| 30°-40°   | 1149.6 | 12.7      |
| 40°-50°   | 1404.0 | 15.5      |
| 50°-60°   | 1623.8 | 17.9      |
| 60°-70°   | 1936.2 | 21.4      |
| 70°-80°   | 1351.3 | 14.9      |
| 80°-90°   | 83.0   | 0.9       |
| 90°-100°  | 0.0    | 0.0       |
| 100°-110° | 0.0    | 0.0       |
| 110°-120° | 0.0    | 0.0       |
| 120°-130° | 0.0    | 0.0       |
| 130°-140° | 0.0    | 0.0       |
| 140°-150° | 0.0    | 0.0       |
| 150°-160° | 0.0    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-90°    | 9049.0 | 100.0     |
| 0°-180°   | 9049.0 | 100.0     |

**Coefficient of Utilization**



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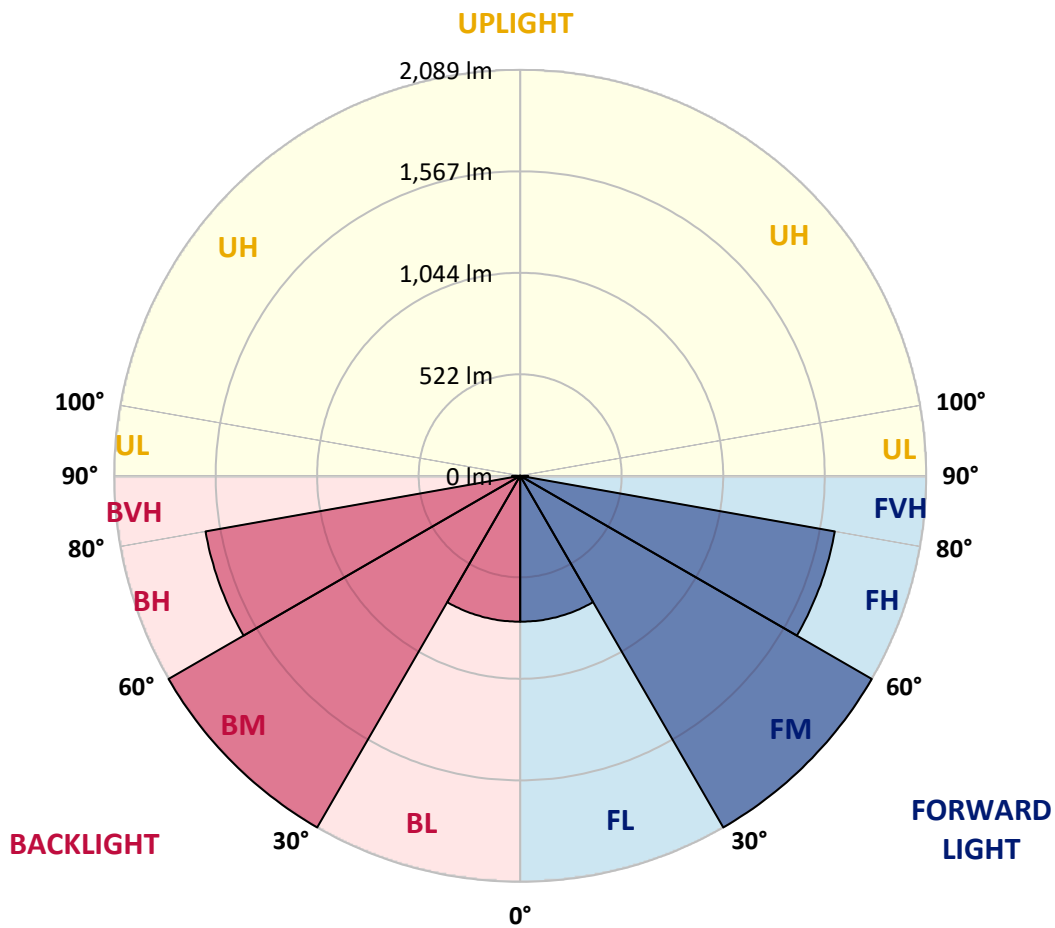
CATALOG NUMBER: GALN-SB1D-830-U-T1

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 750.6  | 8.3       |                         |      |         |
| FM (30°-60°)   | 2088.7 | 23.1      |                         |      |         |
| FH (60°-80°)   | 1643.7 | 18.2      |                         |      | G1/1800 |
| FVH (80°-90°)  | 41.5   | 0.5       |                         |      | G1/100  |
| BL (0°-30°)    | 750.6  | 8.3       | B2/1000                 |      |         |
| BM (30°-60°)   | 2088.7 | 23.1      | B2/2500                 |      |         |
| BH (60°-80°)   | 1643.7 | 18.2      | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 41.5   | 0.5       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**

Type I Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°     |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| 0°    | 1690.9 | 1690.9 | 1690.9 | 1690.9 | 1690.9 | 1690.9 | 1690.9 | 1690.9 | 1690.9 | 1690.9  |
| 2.5°  | 1692.3 | 1694.3 | 1694.3 | 1692.8 | 1696.2 | 1693.3 | 1693.3 | 1691.9 | 1693.3 | 1691.9  |
| 5°    | 1701.0 | 1703.4 | 1704.4 | 1703.9 | 1708.2 | 1705.8 | 1705.8 | 1703.9 | 1704.4 | 1702.9  |
| 7.5°  | 1717.4 | 1720.7 | 1722.6 | 1725.0 | 1731.3 | 1728.4 | 1726.5 | 1720.7 | 1718.3 | 1714.5  |
| 10°   | 1722.6 | 1726.5 | 1732.7 | 1745.2 | 1759.7 | 1760.2 | 1754.4 | 1740.0 | 1728.9 | 1720.2  |
| 12.5° | 1706.3 | 1711.6 | 1724.6 | 1750.1 | 1782.3 | 1795.3 | 1786.1 | 1762.1 | 1740.4 | 1725.0  |
| 15°   | 1685.6 | 1691.4 | 1711.1 | 1749.6 | 1797.2 | 1827.5 | 1826.5 | 1794.8 | 1760.2 | 1736.1  |
| 17.5° | 1653.4 | 1659.2 | 1687.5 | 1741.4 | 1808.7 | 1858.7 | 1872.2 | 1839.5 | 1790.9 | 1758.7  |
| 20°   | 1595.2 | 1600.5 | 1639.9 | 1715.4 | 1812.6 | 1891.9 | 1927.0 | 1898.2 | 1837.6 | 1793.8  |
| 22.5° | 1519.7 | 1527.9 | 1574.0 | 1670.7 | 1803.4 | 1926.6 | 1989.6 | 1969.8 | 1891.9 | 1831.3  |
| 25°   | 1438.9 | 1447.6 | 1501.4 | 1615.9 | 1779.9 | 1951.6 | 2063.6 | 2051.1 | 1953.5 | 1878.0  |
| 27.5° | 1369.2 | 1378.3 | 1437.0 | 1561.5 | 1743.3 | 1961.2 | 2136.7 | 2143.0 | 2028.0 | 1929.4  |
| 30°   | 1314.3 | 1323.0 | 1385.5 | 1517.8 | 1696.2 | 1951.6 | 2200.7 | 2244.0 | 2104.0 | 1974.2  |
| 32.5° | 1254.2 | 1265.3 | 1331.2 | 1464.4 | 1640.4 | 1928.5 | 2256.5 | 2353.1 | 2192.0 | 2022.3  |
| 35°   | 1178.2 | 1188.3 | 1257.6 | 1391.3 | 1567.3 | 1891.4 | 2303.1 | 2474.3 | 2318.0 | 2095.4  |
| 37.5° | 1085.9 | 1095.5 | 1164.3 | 1299.9 | 1494.7 | 1839.5 | 2338.7 | 2610.9 | 2468.1 | 2200.7  |
| 40°   | 993.1  | 1002.2 | 1066.7 | 1198.0 | 1407.6 | 1773.1 | 2351.2 | 2744.6 | 2640.2 | 2345.4  |
| 42.5° | 908.0  | 916.1  | 975.3  | 1097.5 | 1310.0 | 1688.5 | 2334.8 | 2861.0 | 2794.6 | 2446.4  |
| 45°   | 829.6  | 836.8  | 889.2  | 1003.2 | 1208.5 | 1585.6 | 2285.8 | 2986.0 | 2978.3 | 2518.6  |
| 47.5° | 740.1  | 747.3  | 801.7  | 911.8  | 1107.1 | 1464.9 | 2202.6 | 3109.1 | 3233.7 | 2682.1  |
| 50°   | 631.0  | 637.2  | 693.0  | 806.5  | 1001.7 | 1336.5 | 2087.2 | 3205.8 | 3555.9 | 2929.7  |
| 52.5° | 501.6  | 508.3  | 562.7  | 676.2  | 876.7  | 1198.4 | 1935.2 | 3268.8 | 3928.1 | 3291.4  |
| 55°   | 373.2  | 378.0  | 425.1  | 527.1  | 721.9  | 1041.2 | 1744.8 | 3286.6 | 4350.4 | 3785.8  |
| 57.5° | 270.8  | 273.6  | 303.9  | 379.9  | 547.3  | 844.5  | 1513.4 | 3240.4 | 4852.9 | 4419.6  |
| 60°   | 219.3  | 220.3  | 229.4  | 263.1  | 380.4  | 622.3  | 1234.0 | 3081.7 | 5398.3 | 5236.7  |
| 62.5° | 199.1  | 199.1  | 201.5  | 210.6  | 257.3  | 410.7  | 895.9  | 2752.8 | 5983.1 | 6269.2  |
| 65°   | 185.2  | 185.2  | 186.1  | 190.4  | 202.9  | 261.6  | 565.6  | 2217.0 | 6476.0 | 7478.7  |
| 67.5° | 172.6  | 173.1  | 172.6  | 174.1  | 181.3  | 193.3  | 328.0  | 1531.2 | 6741.5 | 8732.0  |
| 70°   | 159.7  | 160.6  | 158.2  | 158.2  | 164.0  | 164.5  | 205.4  | 839.7  | 6521.2 | 9782.3  |
| 72.5° | 144.3  | 145.7  | 141.9  | 140.9  | 145.2  | 143.3  | 154.4  | 403.0  | 5598.8 | 10095.9 |
| 75°   | 130.8  | 132.7  | 124.1  | 121.7  | 121.7  | 120.2  | 125.5  | 206.8  | 3633.8 | 8235.7  |
| 77.5° | 118.8  | 122.6  | 108.7  | 101.0  | 99.1   | 94.7   | 102.4  | 126.5  | 1589.4 | 3866.6  |
| 80°   | 98.1   | 103.4  | 89.5   | 80.3   | 76.9   | 72.1   | 80.8   | 88.5   | 472.7  | 897.9   |
| 82.5° | 73.1   | 75.5   | 63.5   | 57.2   | 54.3   | 51.0   | 60.6   | 61.6   | 153.9  | 317.9   |
| 85°   | 46.6   | 47.6   | 39.0   | 33.7   | 32.2   | 30.8   | 38.5   | 33.7   | 58.7   | 233.7   |
| 87.5° | 16.4   | 18.8   | 14.9   | 13.5   | 14.4   | 12.0   | 17.8   | 10.1   | 16.4   | 165.0   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0     |

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90°

1690.9  
1691.9  
1702.9  
1714.5  
1718.8  
1722.6  
1732.3  
1753.4  
1785.6  
1820.3  
1862.6  
1913.1  
1950.6  
1992.4  
2062.2  
2156.4  
2298.3  
2385.8  
2436.8  
2587.8  
2811.4  
3145.7  
3603.5  
4190.2  
4947.7  
5882.1  
6989.2  
8203.5  
9643.3  
10461.4  
8808.9  
3786.3  
859.9  
359.2  
339.5  
204.4  
0.0

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